# Ledtech LT18XX-R681 — 12 VOLT LED LAMP IN T-1 3/4 PACKAGE

**Features**

- *INTEGRAL CURRENT LIMITING RESISTOR
- *COST EFFECTIVE
- *RELIABLE AND RUGGED
- *IC COMPATIBLE

TO: LEDTECH U.S.A.
6/20/97
MR. JAMES CHENG

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* PRELIMINARY *
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## Absolute Maximum Ratings at $T_A$=25°C

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|---|---|
| REVERSE VOLTAGE (<100 μA) | 5.0 V |
| D.C. FORWARD VOLTAGE | 15.0V |
| PULSE CURRENT(1/10 DUTY CYCLE, 0.1 ms PULSE WIDTH) | 100mA |
| OPERATING TEMPERATURE RANGE | −25°C TO +85°C |
| STORAGE TEMPERATURE RANGE | −25°C TO +100°C |
| LEAD SOLDERING TEMP. (1.6mm FROM BODY) | 260°C FOR 5 SEC. |

## Electrical/Optical Characteristics at $T_A$=25°C

| PART NUMBER | LED CHIP | | LEN'S COLOR | PEAK WAVELENGTH @12V(nm) | FORWARD CURRENT @12V(mA) | | LUMINOUS INTENSITY @12V(mcd) | | VIEW ANGLE 2θ 1/2 (deg) |
|---|---|---|---|---|---|---|---|---|---|
| | MATERIAL | EMITTING COLOR | | | TYP. | MAX. | MIN. | TYP. | |
| LT1821-R681 | GaP | GREEN | G.D. | 567 | 15.0 | 18.0 | 7.2 | 12.0 | 44 |
| LT1822-R681 | GaP | GREEN | W.D. | 567 | 15.0 | 18.0 | 7.2 | 12.0 | 44 |
| LT1831-R681 | GaAsP ON GaAs | YELLOW | W.D. | 585 | 15.0 | 18.0 | 5.7 | 9.5 | 44 |
| LT1832-R681 | GaAsP ON GaAs | YELLOW | W.D. | 585 | 15.0 | 18.0 | 5.7 | 9.5 | 44 |
| LT1841-R681 | GaAsP ON GaAs | ORANGE | O.D. | 635 | 15.0 | 18.0 | 6.0 | 10.0 | 44 |
| LT1842-R681 | GaAsP ON GaAs | ORANGE | W.D. | 635 | 15.0 | 18.0 | 6.0 | 10.0 | 44 |
| LT1841R-R681 | GaAsP ON GaAs | ORANGE | R.D. | 635 | 15.0 | 18.0 | 6.0 | 10.0 | 44 |
| LT18P1-R681 | GaP | PURE GREEN | G.D. | 555 | 15.0 | 18.0 | 2.4 | 4.0 | 44 |

(1)LEN'S COLOR

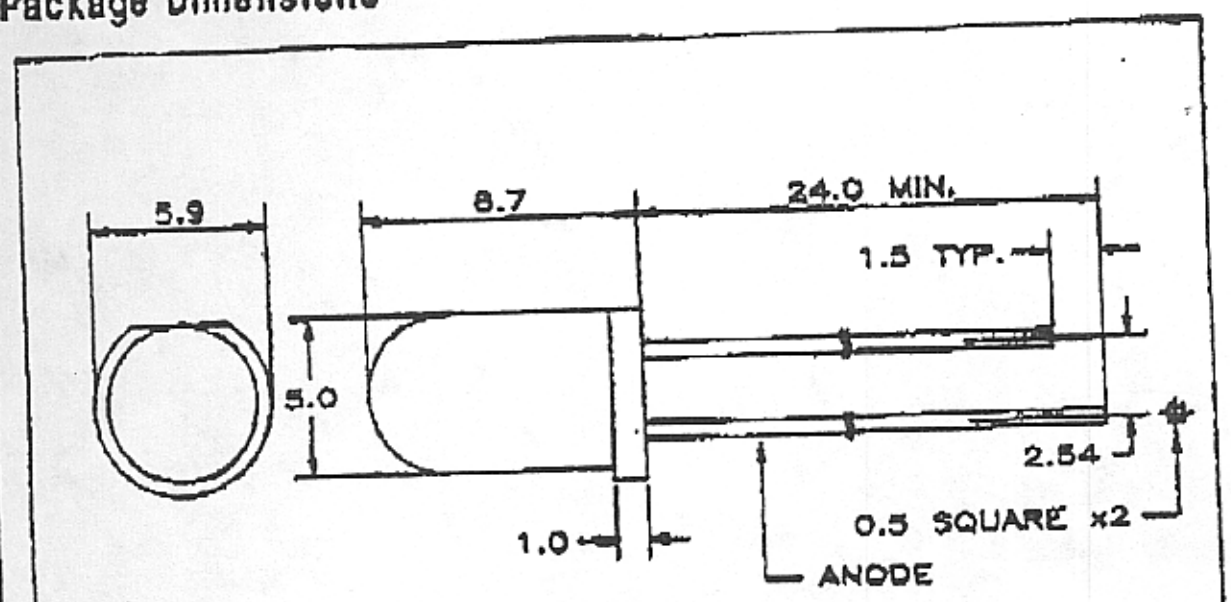
G.D.—GREEN DIFFUSED Y.D.—YELLOW DIFFUSED

O.D.—ORANGE DIFFUSED W.D.—WHITE DIFFUSED

(2)SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

(3)ALL ABOVE COMPONENTS ARE CONSIDERED. DEVIATIONS FROM STATED SPECIFICATIONS WILL REQUIRE A NEW PART NUMBER BE ASSIGNED.

## Package Dimensions




1. ALL DIMENSIONS ARE IN mm,TOLERANCE IS ±0.25mm UNLESS OTHERWISE NOTED.
2. AN EPOXY MENISCUS MAY EXTEND ABOUT 1.0mm DOWN THE LEADS.
3. BURR AROUND BOTTOM OF EPOXY BODY MAY BE 0.5MM MAX.

## Radiation Pattern